

Title (en)

Process for producing 1,1,1,2-tetrafluoropropene

Title (de)

Verfahren zur Herstellung von 1,1,1,2-Tetrafluorpropen

Title (fr)

Procédé pour la production de 1,1,1,2-tétrafluoropropène

Publication

**EP 2371794 B1 20130123 (EN)**

Application

**EP 11169499 A 20081222**

Priority

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- US 1705207 P 20071227

Abstract (en)

[origin: WO2009084703A1] Using hexafluoropropene (HFP) as a raw material, 1,1,1,2-tetrafluoropropene (HFC-1234yf) is obtained by hydrogenation, dehydrofluorination and distillation. In a series of reactions comprised of hydrogenating HFP to obtain 1,1,1,2,3,3-hexafluoropropane (HFC-236ea), dehydrofluorinating the HFC-236ea to obtain 1,1,1,2,3-pentafluoropropene (HFC-1225ye), hydrogenating the HFC-1225ye to obtain 1,1,1,2,3-pentafluoropropane (HFC-245eb), and dehydrofluorinating the HFC-245eb to obtain HFC-1234yf, the hydrogenations and the dehydrofluorinations are respectively carried out in the one step, and then distillation is carried out so that HFC-1234yf can be obtained. Alternately, HFC-1234yf can also be obtained by hydrogenating HFP to directly obtain HFC-245eb, and separating the HFC-245eb by distillation and dehydrofluorinating it. Thus, HFC-1234yf can be produced with a high selectivity.

IPC 8 full level

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